


Application:

The MONARFLEX® CO2 Membrane is a gas and moisture barrier to be used over the foundation of houses and buildings.

Properties:

The MONARFLEX® CO2 Membrane is designed as a three layer moisture barrier film. Top layer is green and bottom layer is black.

Product data	MONARFLEX® CO2 Membrane			
Composition: Top side Middle layer Bottom side	LDPE with stabilizers. LDPE with stabilizers. LDPE with stabilizers.			
Colour	Top and middle layers Green, bottom layer Black.			
Application	150 mm overlapping and sealed airtight with double-sided butyl tape or Monarflex extrusion welded.			
Technical data	Unit	Value	Tolerance	Test method
Length	m	25	+1% -0%	EN 1848-2
Width	m	4,00	+/- 2%	EN 1848-2
Thickness	mm	0,50	+/- 10%	EN 1849-2
Weight	g/m ²	465	+/- 5%	EN 1849-2
Straightness	Pass/Fail	Pass		EN 1848-2
Visible defects	Visible	No visible defects		EN 1850-2
Tensile strength	N/50mm	MD: > 325 CD: > 325		EN 12311-2
Elongation	%	MD: > 400 CD: > 550		EN 12311-2
CO2 Diffusion Resistance (R)	m	283	+/- 20%	BS EN 1062-6
CO2 Diffusion Resistance D _{CO2}	D _{CO2} (cm ² s ⁻¹)	2,53 x 10 ⁻⁷	+/- 20%	BS EN 1062-6
Sd value	m	247	+/- 40	EN 1931
Water vapour transmission	(m ² .s.Pa)/kg	8,0x10 ⁻¹³	2,1x10 ⁻¹⁴	EN 1931
Nail tear resistance	N	MD: > 220 CD: > 220		EN12310-1
Resistance to static loading	N	Pass at 200N		EN 12730, Method B
Impact resistance	mm	≥ 250 mm		EN 12691, Method A
Bitumen compatibility	Pass/Fail	Pass class W1		EN 1548
Joint strength tape	N/50mm	> 60		EN 12317-2
Joint strength welding, Monarflex extrusion	N/50mm	> 200		EN 12317-2
Water tightness to liquid water	kPa	Pass at 2 kPa		EN1928
Durability of water tightness against ageing	kPa	Pass at 2kPa		EN 1296
Durability of water tightness against chemicals	kPa	Pass at 2 kPa		EN 1847
Classification	Moisture Barrier Type A – EN 13967			
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